

Compact Instruments Measure Heat Potential



Marshall Space Flight Center

***AZ Technology Inc.
Huntsville, Alabama***

Originating Technology/NASA Contribution

- ◆ Without the protection of the Earth's atmosphere, materials in space are subject to thermal damage
- ◆ NASA scientists measure how materials will absorb, reflect, emit, or radiate heat, and wanted an instrument for astronauts to assess the conditions of external surfaces in space



Partnership

- ◆ A woman- and veteran-owned business, AZ Technology, received several Small Business Innovation Research (SBIR) contracts to develop a space-portable spectral reflectometer
- ◆ Based on its core competencies developed through NASA, the company sells several optical measurement tools for field and laboratory use

Product Outcome

- ◆ AZ Technology provided measurements to General Electric for its award-winning Giraffe Warmer for newborns in intensive care
- ◆ The company qualifies pipe coatings for ENERGY STAR compliance and reflectors for infrared camera systems, and develops calibration standards for instrumentation